

### Abstract

10 The apparatus according to the invention comprises a housing or frame for receiving the bottle, an element for fixing the bottle, a heating element surrounding part of the bottle and compressing means for compacting the softened bottle, wherein the housing or frame is constructed to receive the bottle with its mouth part upwards, the heating element or the part of the heating  
15 element surrounding the bottle is at most 60 mm high, and is arranged around the neck part of the bottle in its starting position and the fixing element is a sealable plug in the compressing means, to be fitted into the mouth of the bottle and having an air channel, the cross section of which is preferably adjustable, preferably with flow control means. The flow control means may be  
20 a valve. (Fig.3)